

CLAIMS

I claim:

1. An electronic switching system, comprising:
a common source of voltage to a plurality of user stations connected in parallel;
an electronic means of connection to electrically connect a chosen user station to the common source of voltage; and
a means of disconnection command with an optical coupler to control automatically electronic disconnection of other user stations to the common source of voltage.

2. An electronic switching system according to claim 1, wherein there is a default user station that is normally the chosen user station.

3. An electronic switching system according to claim 2, including a means of separation of grounds for the chosen user station and the other user stations.

4. An electronic switching system according to claim 3, including a cell for each user station, with each cell including in series:

a means for separation of the grounds;

a means for electrically connecting terminals of the chosen station at boundaries of the source of voltage;

a means for filtering a signal and for rectification of alternating current;

a means for determination of a response time of the cell; and

a means for command of disconnection including optical couplers to control the electronic disconnection of the source of the voltage to the other cells.

5. An electronic switching system according to claim 4, wherein the optical couplers are electrically connected in series.

6. An electronic switching system according to claim 4, wherein the optical couplers are electrically connected in parallel.

7. An electronic switching system according to claim 4, wherein the response time is determined by a circuit in each cell containing at least one resistor and at least one capacitor.

8. An electronic switching system according to claim 7, wherein the cell for the default user station has a response time lower than the response time of the other cells.

9. An electronic switching system according to claim 8, in which at least one of the cells includes a switch in parallel with a resistor, and when the switch is closed the cell's user station becomes the default user station.

10. An electronic switching system according to claim 8, in which the means of separation of the grounds is a bridge of four diodes.

11. An electronic switching system according to claim 8, wherein the means of separation of the grounds is a bridge of two diodes and two thyristors.

12. An electronic switching system according to claim 8, wherein the means for electrically connecting terminals includes a transistor of command which, when conductive causes a transistor of connection to become conductive, causing current to flow through the means for filtering the signal and for rectification of alternating current, causing the electrical connection of the chosen user station with the source of voltage.

13. An electronic switching system according to claim 12, in which a base of the transistor of command can be connected with a ground by a switch normally open, the switch when closed blocking the electronic connection of the associated station with the source of voltage.

14. An electronic switching system according to claim 13, wherein the switch that is normally open can be manually closed.

15. An electronic switching system according to claim 4, wherein the means for determination of the response time of the cell includes a trigger circuit which determines a response time of blocking the activation of the means for command of disconnection.

16. An electronic switching system according to claim 15, wherein the trigger circuit is controlled by a charging and a discharging of a capacitor.

17. An electronic switching system according to claim 4, wherein the user stations are telephone sets.

18. An electronic switching system according to claim 4, wherein the user stations are motors.

19. An electronic switching system according to claim 3, wherein each user station is electrically connected to a cell, and at least one cell is electrically connected to a plurality of user stations, with each cell including in series:

- a means for separation of the grounds;
- a means for electrically connecting terminals of the chosen station at boundaries of the source of voltage;
- a means for filtering a signal and for rectification of alternating current;
- a means for determination of a response time of the cell;
- a means for command of disconnection including optical couplers to control the electronic disconnection of the source of the voltage to the other cells.

20. An electronic switching system according to claim 3, wherein each user station is electrically connected to a cell, and at least one cell is electrically connected to another cell, with each cell including in series:

a means for separation of the grounds;

a means for electrically connecting terminals of the chosen station at boundaries of the source of voltage;

a means for filtering a signal and for rectification of alternating current;

a means for determination of a response time of the cell;

a means for command of disconnection including optical couplers to control the electronic disconnection of the source of the voltage to the other cells.